

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-63.

1-68. (Cancelled)

69. (Previously submitted) A method comprising:
connecting a transmitter to a transmission line;
receiving an input signal; and
transmitting the input signal on the transmission line by switching between a first
power source and a second power source to generate a balanced current
signal, the first power source comprising a direct current voltage source
and the second power source comprising a sinusoidal waveform generator
and the direct current voltage source.

70. (Previously submitted) The method of claim 69, wherein the balanced current
signal comprises a positive domain image and a negative domain image and
wherein the negative domain image is inverted from the positive domain image.

71. (Previously submitted) The method of claim 69, wherein the transmission line is
a twisted pair cable.

72. (Previously submitted) The method of claim 69, wherein the input signal is a
digital signal.

73. (Previously submitted) The method of claim 69, wherein the sinusoidal
waveform generator includes a direct current voltage offset.

74. (Previously submitted) A transmitter comprising:

a connection to a transmission line;

a plurality of power sources, the plurality of power sources comprising a first power source and a second power source, the first power source comprising a direct current voltage source, the second power source comprising a sinusoidal waveform generator and the direct current voltage source; and

a switch, wherein the switch is coupled to the plurality of power sources and wherein the switch generates a balanced current signal by switching between the plurality of power sources.

75. (Previously submitted) The transmitter of claim 74, wherein the balanced current signal comprises a positive domain image and a negative domain image and wherein the negative domain image is inverted from the positive domain image.
76. (Previously submitted) The transmitter of claim 74, wherein the transmission line is a twisted pair cable.
77. (Previously submitted) The transmitter of claim 74, wherein the sinusoidal waveform generator includes a direct current voltage offset.